

AMENDMENTS TO THE CLAIMS:

The following listing of claims will replace all prior versions and listings of claims in the application. Please amend claims 3 and 4, and add new claim 5, as follows:

1. (Withdrawn) Stiffness-taper tubing comprising at least two kinds of resins, a first resin and a second resin, that have different stiffness, and which are joined such that the stiffness gradually changes in the lengthwise direction, and where a section is formed in the transition section between said first resin and said second where simple surface contact between both resins is broken down and the resins are uniformly mixed together.

2. (Withdrawn) A method for manufacturing stiffness-taper tubing wherein an extrusion mold comprising a die having an extrusion hole, a die holder for holding said die, and mandrel which is mounted inside said die holder and fits in said extrusion hole, is used to form stiffness-taper tubing by joining said first and second resins having different stiffness such that the stiffness gradually changes in the lengthwise direction, and wherein said first resin and second resin flow together in a cylindrical space that is formed between said die holder and said mandrel.

3. (Currently Amended) An apparatus for manufacturing stiffness-taper tubing comprising:

a die having an extrusion hole,
a die holder for holding said die, and
a mandrel which is mounted inside said die holder and fits in said extrusion hole,
and which forms stiffness-taper tubing by switching between and supplying resins
having different stiffness stiffnesses over said mandrel from a plurality of resin-supply
ports that are formed in said die holder such that the stiffness gradually changes in the
lengthwise direction, [[and]]

wherein[[;]] a mandrel insertion hole that connects to said extrusion hole is
formed in said die holder and said mandrel is mounted in this mandrel insertion hole,
and said plurality of resin-supply ports open up to a cylindrical space that is formed
between the inner surface of said mandrel insertion hole and the outer surface of said
mandrel at a position that is separated from the extrusion hole in said die, and the
plurality of resins flow together in this cylindrical space, and

wherein said mandrel in said mandrel insertion hole is formed like a screw having
a thread which gradually becomes lower as the thread advances forward.

4. (Currently Amended) The apparatus for manufacturing stiffness-taper tubing
of claim 3, wherein said mandrel in said mandrel insertion hole is a multi-thread screw
that is formed such that the screw grooves are divided up at a plurality of positions by
forming threads, that form said screw grooves, that stop part way and new threads start
at an adjacent offset position, and

wherein the height of said threads gradually becomes lower as the threads
advance forward.

5. (New) The apparatus for manufacturing stiffness-taper tubing of claim 3 in which said screw has a first thread and a second thread, and wherein an end of the first thread offsets and partially overlaps with an end of the second thread.

AMENDMENTS TO THE DRAWINGS:

The attached drawing sheet is a formal, replacement drawing sheet containing Fig. 7, which has been amended to include the legend, "PRIOR ART."